

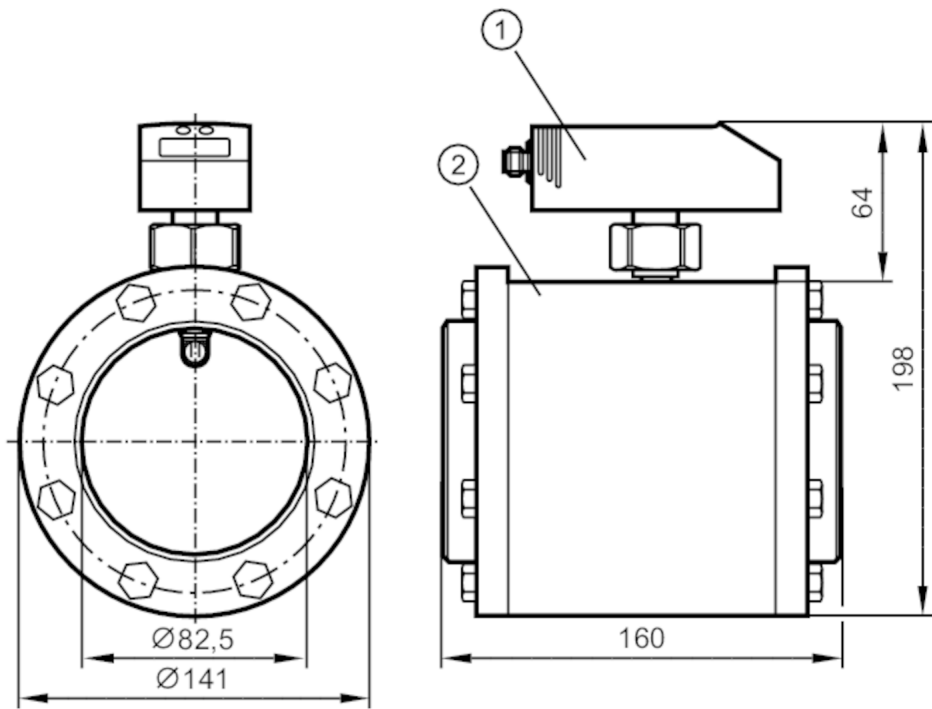


Compressed air meter

SDG3"/METRIS PB DN80

phase-out article
Discontinuation date: 12/31/2024

Alternative articles: SDG450
When selecting an alternative article and accessories please note that technical data may differ!



- 1 Flow sensor
- 2 pipe section



Product characteristics		
Number of inputs and outputs		Number of digital outputs: 2; Number of analogue outputs: 1
Measuring range	[m³/h]	
Process connection		
		flange DN80 according to:DIN EN 10220
Application		
Application		totaliser function
Media		compressed air
Note on media		air quality ISO 8573-1
		class 141
		class 344
Medium temperature	[°C]	0...60
Pressure rating	[bar]	16
Pressure rating	[MPa]	1.6
Electrical data		
Operating voltage	[V]	19...30 DC
Current consumption	[mA]	< 100
Protection class		III



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Reverse polarity protection	yes
Power-on delay time [s]	0.5
Inputs / outputs	
Number of inputs and outputs	Number of digital outputs: 2; Number of analogue outputs: 1
Outputs	
Total number of outputs	2
Output signal	switching signal; analogue signal; pulse signal; (configurable)
Electrical design	PNP
Number of digital outputs	2
Output function	normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC [V]	2
Permanent current rating of switching output DC [mA]	250; (per output)
Number of analogue outputs	1
Analogue current output [mA]	4...20; (scalable)
Max. load [Ω]	500
Pulse output	consumed quantity meter
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes
Measuring/setting range	
Measuring range [m³/h]	9...2750
Display range [m³/h]	0...3300
Volumetric flow quantity monitoring	
Pulse value	1 Nm³
Pulse length [s]	0,1
Accuracy / deviations	
Flow monitoring	
Accuracy (in the measuring range)	$\pm (3 \% MW + 0,3 \% MEW) / \pm (6 \% MW + 0,6 \% MEW)$; (class 141 /; class 344)
Response times	
Flow monitoring	
Response time [s]	0.1; (dAP = 0)
Operating conditions	
Ambient temperature [°C]	0...60
Storage temperature [°C]	-20...85
Max. relative air humidity [%]	90
Protection	IP 65



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Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
Vibration resistance	DIN IEC 68-2-6	5 g (55...2000 Hz)
MTTF [years]	214	

Mechanical data		
Weight [g]	11625	
Materials	PBT-GF20; PC; PC; stainless steel (304/1.4301); FKM; pipe section: steel galvanised	
Materials (wetted parts)	stainless steel (316 / 1.4401); stainless steel (304/1.4301); ceramics glass passivated; PEEK; polyester; FKM; aluminium anodised; pipe section: steel galvanised	
Process connection	flange DN80 according to:DIN EN 10220	

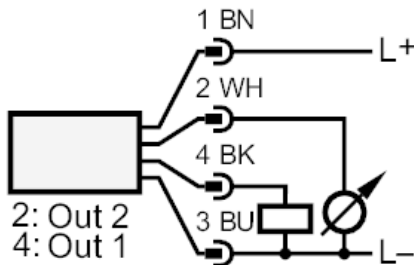
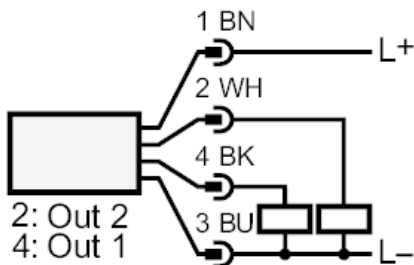
Remarks		
Remarks	MW = measured value	
	MEW = Final value of the measuring range	
	Measuring, display and setting ranges refer to the standard volume flow according to DIN ISO 2533.	
	For information about installation and operation please see the operating instructions.	
Pack quantity	1 pcs.	

Electrical connection

Connector: 1 x M12; coding: A



Connection



- OUT1: switching output
Pulse output quantity meter
- OUT2: switching output
input counter reset
analogue output